

SEQUENCE LISTING

<110> TAKESAKO, Kazutoh
MIZUTANI, Shigetoshi
ENDO, Masahiro
KATO, Ikunoshin

<120> FUNGAL ANTIGENS AND PROCESS FOR PRODUCING THE SAME

<130> 1422-0502P

<140> UNKNOWN

<141> 2001-10-26

<150> 09/262,856

<151> 1999-03-04

<160> 15

<170> PatentIn Ver. 2.0

<210> 1

<211> 50

<212> PRT

<213> Candida albicans

<220>

<221> Unsure

<222> (1)..(50)

<223> any Xaa = any amino acid, unknown or other

<400> 1

Ala Ser Thr Lys Lys Tyr Asp Val Val Val Ile Gly Gly Gly Pro Gly
1 5 10 15

Gly Tyr Val Ala Ala Ile Lys Ala Ala Gln Leu Gly Leu Asn Thr Ala
20 25 30

Xaa Ile Glu Lys Arg Gly Ala Leu Gly Gly Thr Xaa Leu Asn Val Gly
35 40 45

Xaa Ile
50

<210> 2

<211> 30

<212> PRT

<213> Candida albicans

<220>

<221> Unsure

<222> (1)..(30)

<223> any Xaa = any amino acid, unknown or other

<400> 2

Lys Tyr Ser Leu Pro Glu Leu Asp Tyr Glu Phe Ser Ala Thr Glu Pro

			100				105				110				
Lys	Ala	Val	Lys	Gln	Leu	Thr	Gly	Gly	Ile	Glu	Met	Leu	Phe	Lys	Lys
		115					120					125			
Asn	Lys	Val	Asp	Tyr	Leu	Lys	Gly	Ala	Gly	Ser	Phe	Val	Asn	Glu	Lys
		130				135					140				
Thr	Val	Lys	Val	Thr	Pro	Ile	Asp	Gly	Ser	Glu	Ala	Gln	Glu	Val	Glu
145					150					155					
Ala	Asp	His	Ile	Ile	Val	Ala	Thr	Gly	Ser	Glu	Pro	Thr	Pro	Phe	Pro
				165					170					175	
Gly	Ile	Glu	Ile	Asp	Glu	Glu	Arg	Ile	Val	Thr	Ser	Thr	Gly	Ile	Leu
			180					185					190		
Ser	Leu	Lys	Glu	Val	Pro	Glu	Arg	Leu	Ala	Ile	Ile	Gly	Gly	Gly	Ile
		195					200					205			
Ile	Gly	Leu	Glu	Met	Ala	Ser	Val	Tyr	Ala	Arg	Leu	Gly	Ser	Lys	Val
		210				215					220				
Thr	Val	Ile	Glu	Phe	Gln	Asn	Ala	Ile	Gly	Ala	Gly	Met	Asp	Ala	Glu
225					230					235					
Val	Ala	Lys	Gln	Ser	Gln	Lys	Leu	Leu	Ala	Lys	Gln	Gly	Leu	Asp	Phe
				245					250					255	
Lys	Leu	Gly	Thr	Lys	Val	Val	Lys	Gly	Glu	Arg	Asp	Gly	Glu	Val	Val
			260					265					270		
Lys	Ile	Glu	Val	Glu	Asp	Val	Lys	Ser	Gly	Lys	Lys	Ser	Asp	Leu	Glu
		275					280					285			
Ala	Asp	Val	Leu	Leu	Val	Ala	Ile	Gly	Arg	Arg	Pro	Phe	Thr	Glu	Gly
		290				295					300				
Leu	Asn	Phe	Glu	Ala	Ile	Gly	Leu	Glu	Lys	Asp	Asn	Lys	Gly	Arg	Leu
305					310					315					
Ile	Ile	Asp	Asp	Gln	Phe	Lys	Thr	Lys	His	Asp	His	Ile	Arg	Val	Ile
				325					330					335	
Gly	Asp	Val	Thr	Phe	Gly	Pro	Met	Leu	Ala	His	Lys	Ala	Glu	Glu	Glu
			340					345					350		
Gly	Ile	Ala	Ala	Ala	Glu	Tyr	Ile	Lys	Lys	Gly	His	Gly	His	Val	Asn
		355					360					365			
Tyr	Ala	Asn	Ile	Pro	Ser	Val	Met	Tyr	Thr	His	Pro	Glu	Val	Ala	Trp
		370				375					380				
Val	Gly	Leu	Asn	Glu	Glu	Gln	Leu	Lys	Glu	Gln	Gly	Ile	Lys	Tyr	Lys
385					390					395					
Val	Gly	Lys	Phe	Pro	Phe	Ile	Ala	Asn	Ser	Arg	Ala	Lys	Thr	Asn	Met

Ile Asn Trp Lys Glu Ala Glu Arg Arg Phe Glu Phe
180 185

<210> 7
<211> 1750
<212> DNA
<213> Candida albicans

<400> 7
ctcagagaga ccggactaaa gattctataa atattctttc tttctgttca cattatatat 60
tcttctcaac aaatgttaag atcattcaaa tctattccag ccaatggaaa attggcccag 120
tttggttagat atgcatcaac caagaaatac gacgttggtg tcattgggtg tggaccaggt 180
gggtacgttg ctgccatcaa ggccgctcaa ttaggattaa aactgcctg tattgaaaaa 240
agaggtgcat tgggtggtac ttgtttgaat gttggttgta tcccatccaa atctttattg 300
aacaactccc atttattaca ccaaatccaa cacgaagcca aagaaagagg tatttccatc 360
caaggtgaag ttggcgttga ttttccaaaa ttgatggctg ccaaggaaaa agccgtcaaa 420
caattgaccg gtggtattga aatgttggtc aaaaagaaca aggttgacta cttgaaagga 480
gccggttctt ttgttaacga aaaaaccgtc aaagtcactc caattgacgg cagcgaagca 540
caagaagttg aagccgacca catcatcggt gctactgggt ctgaaccaac tccattccca 600
ggtattgaaa tagatgaaga aagaattgtc acttctactg gtattttatc attgaaagaa 660
gtaccagaaa gattagccat cattgggtgga ggtatcattg gtttggaat ggcttccgtt 720
tacgcaagat tgggctctaa agtcaactgtt atcgaattcc agaacgctat tggtgccggt 780
atggatgctg aagttgctaa acaatctcaa aaattattgg ccaaacaagg tttggacttc 840
aaattaggta caaaggttgt taaaggtgaa agagatgggt aagtgggtcaa gatcgaagtt 900
gaagatgtca aatccggtaa aaaatctgac cttgaagccg atgtcttggt ggttgccatt 960
ggtagaagac catttactga aggtttgaac tttgaagcca ttggtttaga gaaagataac 1020
aagggaagat tgattattga cgaccaattc aagactaaac atgaccacat cagagttatt 1080
gggatgtca cattcggtcc tatgttggcc cacaaggctg aagaagaagg tatcgtctgt 1140
gctgaatata tcaagaaagg tcacgggtcat gtaactatg ctaacatccc ttctgttatg 1200
tatactcacc cagaagttgc ctgggttggg ttaaacgaag aacaattgaa agaacaaggc 1260
atcaaataca aagtaggtaa attcccattc attgccaact ccagagctaa aaccaacatg 1320
gacactgatg gtttcgtgaa attcattgct gatgccgaaa ccaaagagt gttgggtgtc 1380
cacattattg gtccaaatgc aggtgaaatg attgctgaag ctggtttggc cttagaatat 1440
ggtgcttcca ccgaagacat ttcaagaaca tgtcatgtc atccaacttt atctgaagct 1500
ttcaaggaag ctgctttggc cacccttgat aagccaatca acttttaaaa gtgatactga 1560
atacaacagt aatgaaaagt aaatactaaa ataatttgat ttgatttttt ttactttttt 1620
ttcactcttt tgctctcatt tttaagggtt tctaaatact gaattatctg agccatataa 1680
gacaatcaca tctatacata aatacacaaa taataacaca tatatattta ttttgaaaaa 1740
aaaaaaaaa 1750

<210> 8
<211> 721
<212> DNA
<213> Candida albicans

<400> 8
gccactgaac cgtacatcac aggacaaatg aacgaaattc actacactaa acatcaccaa 60
acttatgtta acaaccttaa tgcttcaatt gaacaagccg ttgaagccaa atctaaaggt 120
gaagttaaaa aattggttgc cttacaaaaa gccatcaatt tcaacggtgg tggttacctc 180
aatcattggt tgtggtggaa aaacttggtc cctgtctctc acggtggtgg tcaaccacca 240
agtgaagatt ccaaattagg taaacaaatc gtcaaacaat ttggttcttt ggataaattg 300
attgaaatca ccaatggcaa attggctggt attcaagggt ctggatgggc ttttattggt 360
aaaaacaaag ccaatgggtg tactattgat gtcacacca ctgctaacca agatactgtt 420
actgatctaa acttggttcc attgattgct attgatgctt ggaaacatgc ttattatttg 480
caataccaaa atgttaaagc tgattacttc aagaaccttt ggcatgttat caactggaag 540
gaagctgaaa gaagatttga attttaagtt actggacaaa agtcaagtac atattttaat 600

ccaatattag aaaataaaag agttacttcc gatagtgtg attttgttta atatttcccc 660
attgtatata agtatatatg caagaatata ttcttgattg tgatgtaaaa aaaaaaaaaa 720
a 721

<210> 9
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (3)
<223> i

<220>
<221> modified_base
<222> (9)
<223> i

<220>
<221> modified_base
<222> (12)
<223> i

<220>
<221> modified_base
<222> (15)
<223> i

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 9
ggntaygtng cngcnathaa rgc 23

<210> 10
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<221> modified_base
<222> (6)
<223> i

<220>
<221> modified_base
<222> (15)
<223> i

<220>
<221> modified_base
<222> (18)
<223> i

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<400> 10
tcytcngcyt trtgngcnar cat 23

<210> 11
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<220>
<221> Unsure
<222> (1)..(32)
<223> any n = a,c,g,t unknown or other

<400> 11
aartaywsny tncngaryt ngaytaygar tt 32

<210> 12
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA

<220>
<221> Unsure
<222> (1)..(32)
<223> any n = a,c,g,t unknown or other

<400> 12
gcnacngarc cntayathws nggnca 26

<210> 13
<211> 944
<212> DNA
<213> Candida albicans

<400> 13
gggtacgtgg cggcgatcaa ggccgctcaa ttaggattaa aactgcctg tattgaaaaa 60
agaggtgcat tgggtggtac ttgtttgaat gttggttgta tcccatccaa atctttattg 120
aacaactccc atttattaca ccaaataccaa cacgaagcca aagaaagagg cattttctatc 180
caaggtgaag ttggcgttga ttttccaaaa ttgatggctg ccaaggaaaa agccgtcaaa 240
caattgaccg gtggtattga aatgttggtc aaaaagaaca aggttgacta cttgaaagga 300
gccggttctt ttgttaacga aaaaaccgtc aaagtcactc caattgacgg cagcgaagca 360
caagaagttg aagccgacca catcatcgtt gctactgggt ctgaaccaac tccattccca 420
ggtattgaaa tagatgaaga aagaattgtc acttctactg gtattttatc attgaaagaa 480
gtaccagaaa gattagccat cattggtgga agtatcattg gtttggaat ggcttccgtt 540
tacgcaagat tgggctctaa agtcaactgt atcgaattcc agaacgctat tgggtgccgtt 600
atggatgctg aagttgctaa acaatctcaa aaattattgg ccaaacaagg tttggacttc 660
aaattaggtg caaaggttgt taaaggtgaa agagatgggt aagtggtcaa gatcgaagtt 720
gaagatgtca aatccggtta aaaatctgac cttgaagccg atgtcttggt ggttgccatt 780
ggtagaagac catttactga aggtttgaac tttgaagcca ttggtttaga gaaagataac 840
aagggaagat tgattattga cgaccaattc aagactaaac atgaccacat cagagttatt 900

944

<211> 30

<212> PRT

<213> Candida albicans

<400> 14

Tyr Lys Val Ala Val Leu Gly Ala Gly Gly Gly Ile Gly Gln Pro Leu
1 5 10 15

Ser Leu Leu Leu Lys Leu Asn His Lys Val Thr Asp Leu Ala
20 25 30

<210> 15

<211> 30

<212> PRT

<213> Candida albicans

<400> 15

<400> 15
Ala Pro Thr Phe Thr Asn Ser Asn Gly Gln Pro Ile Pro Glu Pro Phe
1 5 10 15

Ala Thr Gln Arg Val Gly Gln His Gly Pro Leu Leu Leu Gln
20 25 30